



# Laboratory Test Chambers LabEvent



Illustration is similar, contains options



[www.weiss-technik.com](http://www.weiss-technik.com)



# Test whatever you like.

From motherboards to blister packaging - in research, development and quality control, you won't want to take any chances. We'll support you.



## Temperature and climate tests in the smallest of spaces.

The functionality and usability of a product is ensured at very early stages in research and development laboratories. Limited laboratory space and the need to test smaller samples directly at the workplace call for compact and quiet instruments. Our Laboratory Test Chambers LabEvent offer the possibility to test the functionality of a product when exposed to certain temperature and humidity conditions. With this method, for example, a malfunction of components can be detected and handled at an early stage.

## Lots to test? No problem!

When testing your products, you must adhere to numerous test standards and carry out long-term tests. Our test chambers are designed for these situations. Our models cover a wide range of applications and satisfy every need. For specific requirements, you can upgrade every system with many options based on your individual needs.

# Perfection in performance, equipment and design.

## Laboratory Test Chambers LabEvent.

### Precisely engineered.

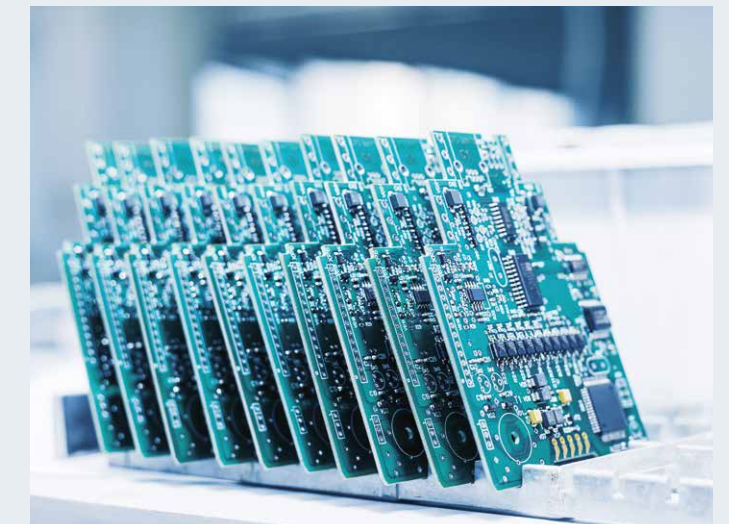
We know what matters for your tests: reliable, precise and reproducible results. That's why we design our test chambers to meet exactly these demands. Because incorrect results lead to incorrect conclusions. With your needs in mind, we already eliminate any interference factors during the design phase, relying on our comprehensive expertise and years of experience.

### Perfectly manufactured.

For us, quality is our daily business. We use only high-quality materials and manufacture many of the components for our test chambers in-house. In addition, we have regular quality checks in place throughout the entire production process.

### Absolutely low maintenance.

Set up, plug in, start the test. The intelligent, compatible control elements and intuitive user interface guarantee easy operation. Easily accessible maintenance elements ensure minimal service times. Diagnostics and inspection systems in every machine additionally shorten downtimes and optimise maintenance periods.



### Highlights at a glance:

- New, eco-friendly refrigerant R449A
- WEBSeason® web-based user interface
- Space-saving compact design
- Universal application thanks to variable temperature controls

# More equipment, right from the start.

Basic equipment setting standards.



You can find further details on equipment in our technical descriptions. **Contact us.**

**i** Our innovative Test Chambers are available as **weisstechnik** or **vötschtechnik**.

## Exterior



- **Move safely into the future - using the new refrigerant**  
The new refrigerant R449A is used in all Temperature and Climate Test Chambers LabEvent. The GWP value of just 1397 ensures safe usage even after 2030, and the refrigerant does not have to be replaced. As a result, we are already surpassing the future statutory standards today therefore future-proofing your tests, making the equipment easier to maintain and more environmentally friendly.
- **Minimum space requirements**  
The technology is fitted into the devices in such a way that the footprint is minimised. Each temperature and climate test chamber requires less than 1 m<sup>2</sup> of space.

## Interior



- **No chance for dirt or corrosion**  
The test chamber floor is made of corrosion-resistant 1.4301 stainless steel. Thanks to special welding and smooth surfaces, the test chamber is easy to clean. Standard humidity bath flushing prevents contamination of humidification water.
- **Reliably tested**  
The humidity of the test space air is measured according to the internationally valid psychrometric measuring principle. The life time of the psychrometer which is considerably increased due to a self-cleaning mechanism.

## Regulation & Control



- **Into the age of connectivity - with WEBSeason®**  
You can use the innovative **WEBSeason** user interface to program, control and monitor your tests at any time and anywhere, even from your tablet or smartphone. Language and units can be set to suit the user and the settings can be saved. In this way, **WEBSeason** provides a new dimension of flexibility and efficiency.





# Tailor-made testing.

## Optional equipment for individual solutions.

### Exterior



- **Space-saving redefined**  
A custom-built tool offers the possibility to stack the Laboratory Test Chambers.
- **Mobile and flexible**  
Two fixed and two swivel castors allow for sufficient flexibility in the mobile version.

### Interior



- **Everything under control**  
Determine the position, size and number of feedthroughs according to your individual test requirements.
- **Small test specimen largely distributed**  
Thoroughly test your samples - with a total weight of up to 125 kg - on up to nine grids.

### Regulation & Control



- **Set standards in communication**  
With **SIMPATI®** software, operating, documenting and archiving your test sequences is very easy.

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Developed exclusively for you:  
The unique software package  
for the perfect test process.



Convincing technology. Reliable results.

The performance data at a glance.

Type	Exterior housing dimensions <sup>1</sup> , HxWxD	Test space dimensions, HxWxD	Minimum temperature <sup>2</sup>	Maximum temperature	Temperature-changing rate cooling <sup>3</sup>	Temperature-changing rate heating <sup>3</sup>	Temperature deviation in time <sup>4</sup>	Temperature homogeneity in space <sup>5</sup>	Temperature gradient <sup>6</sup>	Maximum heat compensation at +20 °C <sup>7</sup>	Heat compensation at -20 °C	Minimum temperature <sup>2</sup>	Maximum temperature	Dewpoint temperature range <sup>8</sup>	Humidity range	Humidity constancy in time <sup>9</sup>	Temperature homogeneity in time <sup>4</sup>	Temperature homogeneity in space <sup>5</sup>
	mm	mm	°C	°C	K/min	K/min	K	K	K	W	W	°C	°C	°C	% RH	% RH	K	K
PERFORMANCES FOR			TEMPERATURE TESTS									CLIMATE TESTS						
LabEvent L T/34/40/5	1000x661x926	310x350x290	-40	+180	4.5	4.0	±0.3 to ±1.0	±0.5 to ±2.0	≤4.0	400	130							
LabEvent L T/34/70/5	1684x661x791	310x350x290	-70	+180	5.0	4.0				300	130							
LabEvent L T/64/40/3	1090x781x843	400x470x340	-40	+180	4.0	4.0				800	275							
LabEvent L T/64/70/3	1090x781x843	400x470x340	-70	+180	4.0	4.0				550	300							
LabEvent L T/100/40/5	1191x801x995	500x490x405	-40	+180	4.5	3.0				1100	400							
LabEvent L T/100/70/3	1191x801x995	500x490x405	-70	+180	4.0	3.0				900	500							
LabEvent L T/150/40/5	1191x801x1200	500x490x610	-40	+180	4.5	3.0				1100	400							
LabEvent L T/150/70/3	1191x801x1200	500x490x610	-70	+180	4.0	3.0				900	500							
LabEvent L C/34/+10/5	1000x661x926	310x350x290	+10	+180	5.0	4.0				400		+10	+95	+4.8 to 93.6	+10 to +95	±1 to ±3	±0.3 to ±0.5	±0.5 to ±1.5
LabEvent L C/34/40/5	1000x661x926	310x350x290	-40	+180	4.5	4.0				400	130	+10	+95					
LabEvent L C/34/70/5	1684x661x791	310x350x290	-70	+180	5.0	4.0				300	130	+10	+95					
LabEvent L C/64/+10/3	1090x781x978	400x470x340	+10	+180	4.0	4.0				800		+10	+95					
LabEvent L C/64/40/3	1090x781x978	400x470x340	-40	+180	4.0	4.0				800	275	+10	+95					
LabEvent L C/64/70/3	1090x781x978	400x470x340	-70	+180	4.0	4.0				550	300	+10	+95					
LabEvent L C/100/+10/5	1191x801x1130	500x490x405	+10	+180	4.5	3.0				1100		+10	+95					
LabEvent L C/100/40/5	1191x801x1130	500x490x405	-40	+180	4.5	3.0				1100	400	+10	+95					
LabEvent L C/100/70/3	1191x801x1130	500x490x405	-70	+180	4.0	3.0				900	500	+10	+95					
LabEvent L C/150/+10/5	1191x801x1335	500x490x610	+10	+180	4.5	3.0				1100		+10	+95					
LabEvent L C/150/40/5	1191x801x1335	500x490x610	-40	+180	4.5	3.0				1100	400	+10	+95					
LabEvent L C/150/70/3	1191x801x1335	500x490x610	-70	+180	4.0	3.0				900	500	+10	+95					
Calibration values:			+23 and +80 °C for all temperature test devices									+23 and +80 °C/50% r.H. for all climatic test devices						

<sup>1</sup>The required clearances can be reduced by dismounting components.  
<sup>2</sup>Temperatures >+5 °C are permitted in continuous operation; temperatures <+5 °C are permitted discontinuously or with the addition of a compressed air dryer.  
<sup>3</sup>According to IEC 60068-3-5; on average, measured in the supply air at LabEvent L T/34/40/5 to LabEvent L C/64/70/3, measured in the return air at LabEvent L T/100/40/5 to LabEvent L C/150/70/3.  
<sup>4</sup>In the middle of the test space when it is empty and in steady state, without specimen, without heat radiation and without additional equipment, depending on temperature.  
<sup>5</sup>Relative to the selected set point in the temperature range from the minimum temperature up to +150 °C.  
<sup>6</sup>Up to 150 °C according to IEC 60068-3-5:2001 and/or JF 1101-2003.  
<sup>7</sup>At +20 °C for temperature tests.  
<sup>8</sup>Discontinuous operation (+4 to -3 °C).  
<sup>9</sup>In the centre of the working chamber in steady state, without test material, without irradiation and without additional equipment, depending on the climate value.

All data are average values of standard devices and refer to an ambient temperature of +25 °C and a cooling water supply temperature of +18 °C, a nominal voltage of 230 V/50 Hz, without test material, without irradiation and without additional equipment.  
The product needs fluorinated gases for functioning.  
Depending on the type, it contains refrigerants R449A and R23.  
**We reserve the right to make any technical changes without prior notice.**

# Become more efficient.

Our solutions will save you time and money.

Get the most out of your test facility.



Create your own perfect testing process with the SIMPATI® software package.

Process management/documentation/networking

- Up to 99 systems can be connected
- Programs for automated processes
- Documentation, visualisation and management of process data
- Traceability of process data for seamless quality control

# Unlimited testing.

Test Chambers for all requirements.

We provide a wide range of systems and devices for environmental simulation. Whether you are carrying out temperature, climate, vibration, corrosion, emissions, altitude, pressure or combined stress testing, we have the right solution and can supply systems in all sizes. From series products right through to customer-specific, process-integrated systems. The choice is yours! For excellent reproducibility and precise test results.

You can find further information on [www.weiss-technik.com](http://www.weiss-technik.com)



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- Wide selection of preventive maintenance
- Reliable spare part supply
- Special deployments available any time
- Certified proper disposal of outdated devices

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# Passionately innovative.

**We work in partnership to support companies in research,  
development, production and quality assurance.  
With 22 companies in 15 countries at 40 locations.**

**weisstechnik**

**Test it. Heat it. Cool it.**



## Environmental Simulation

The first choice for engineers and researchers for innovative, safe environmental simulation facilities. In fast motion, our test systems can simulate all the influences in the world as well as for instance in space. In temperature, climate, corrosion, dust or combined stress tests. With a very high degree of reproducibility and precision.



## Climate Technology, Air Dehumidification, Clean Rooms

As the leading provider of clean rooms, climate technology and air dehumidification, we consistently ensure optimal climatic conditions for people and machines. For industrial production processes, in hospitals, mobile operation tents or in the field of information and telecommunications technology. From project planning to implementation.



## Heat Technology

Experienced engineers and designers develop, plan and produce high-quality, reliable heat technology systems for a broad range of applications from heating and drying cabinets to microwave systems and industrial furnaces.



## Clean Air and Containment Systems

With decades of experience and know-how, we guarantee the most sophisticated clean air and containment solutions. Our comprehensive and innovative range of products includes barrier systems, laminar flow systems, safety workbenches, isolators and airlocks.

### **Weiss Umwelttechnik GmbH**

Greizer Straße 41-49  
35447 Reiskirchen/Germany  
T +49 6408 84-0  
info@weiss-technik.com

### **Vötsch Industrietechnik GmbH**

Environmental Simulation  
Beethovenstraße 34  
72336 Balingen/Germany  
T +49 7433 303-0  
info@weiss-technik.com

www.weiss-technik.com



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